

PTZ OPTICS

Video Conferencing Camera



The PTZ Optics 20X IP is a 1080p camera with 20X optical zoom for conferencing in large rooms. With support for HDMI, HD-SDI, and IP Streaming (H.264), this camera is ideal for transmitting high-definition video signals for broadcast or traditional video conferencing applications.

KEY FEATURES

- 20X Optical Zoom
- High performance in low illumination situations
- Full 1920x1080p HD Resolutions up to 30 frames per second
- 2D and 3D noise reduction with our latest “low noise CMOS sensor”
- Wide Dynamic Range (DRC) records greater scene detail, from shadows to highlights in the same scene
- Audio input for audio-video streaming applications

WHAT'S IN THE BOX

20X Zoom IP Camera
Power Adapter
IR Remote Control
DB9F-mini-DIN8M (RS-232C) Cable
User Manual

Camera & Lens

Panasonic Video Sensor	1/3" CMOS, 2.12 Effective Mega Pixels
Resolution & Frame Rate	1080p/30, 1080p/25, 720p/60, 720p/50, 480i, 576i NTCS, PAL
Tamron Lens	20x, F4.42mm-88.5mm, F1.8-F2.8
Lens Zoom	20x Optical (plus 16x Digital)
Min Lux	0.5 Lux (@ F1.8, AGC ON)
Shutter Speed	1/25s - 1/10000s
SNR	≥55dB
Vertical Image Flip & Mirror	Yes
Horizontal Field of View	3.36° (Tele) - 60.7° (Wide)
Vertical Angle of View	1.89° (Tele) - 34.1° (Wide)
White Balance Control	Auto, Manual & Presets

Pan & Tilt Movement

Pan Movement	±170°
Tilt Rotation	-30° - +90°
Presets	245 Presets

Rear Board Connectors

Video Output Interfaces	HDMI, HD-SDI, CVBS
Network Interface	RJ45
Audio Interface	Line In / Line Out (future), 3.5mm
Communication Interfaces	RS-232, RS485, VISCA, Pelco-D, Pelco-P Baud Rate 2400/4800/9600 bps
Power Supply Interface	JEITA type Power Adapter (DC IN 12V)
USB Interface	USB 2.0 (for firmware updates only)

Electrical Index

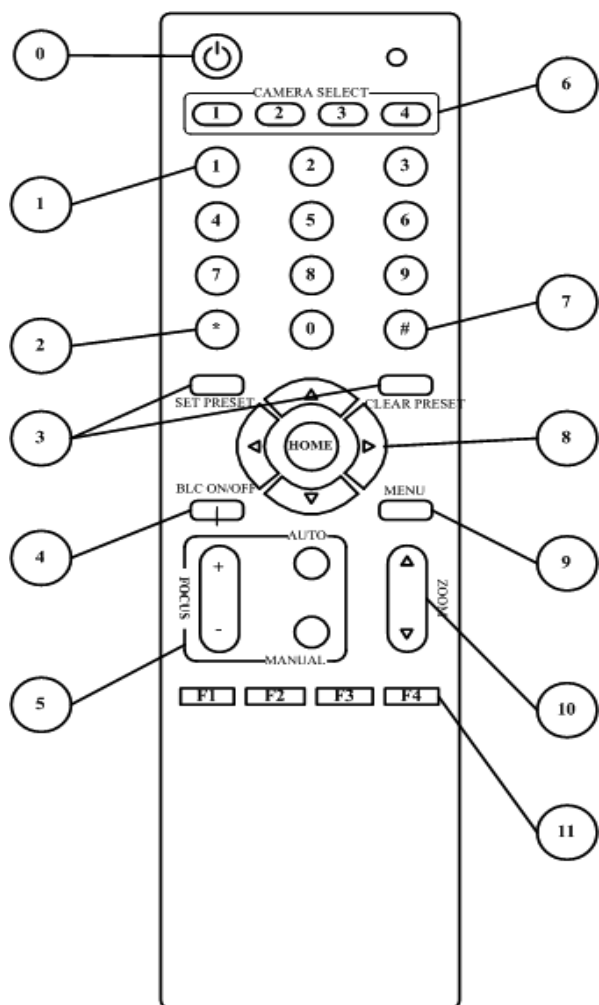
Power Consumption	24W (2A max) - 12W (standby)
Input Voltage	12V DC (10.8 - 13.0V DC)

Physical Specifications

Dimensions	5.59" x 6.65" x 6.93"
Weight	3.3 lbs.
Temperatures	Operate 23°-104°F Store 23°-140°F



1. Audio LINE IN Interface (embed audio on IP stream)
2. Audio LINE OUT Interface (disabled - future use only)
3. CVBS Interface
4. Dip Switches
5. Resolution Select Switch
6. RS485 Jack
7. RS232 IN Jack
8. RS232 OUT Jack
9. RJ45 Interface
10. HDMI Interface
11. HD-SDI Interface
12. USB2.0
13. DC 12V Jack
14. Power Switch



0. Standby Button

Press this button to enter standby mode. Press it again to enter normal mode. (Note: Power consumption in standby mode is approximately half of the normal mode)

1. Position Buttons

To set or call presets

2. * Button

3. Set/Clear Preset Buttons

Set preset: Store a preset position [SET PRESET] + Numeric button (0-9): Setting a corresponding numeric key preset position
Clear preset: Erase a preset position [CLEAR PRESET] + Numeric button (0-9)
Or: [*] + [#] + [CLEAR PRESET]: Erase all the presets.

4. BLC (Backlight Compensation) Button

BLC ON/OFF: Press this button to enable the backlight compensation. Press it again to disable the backlight compensation. (NOTE: Effective only in auto exposure mode) Note: If a light behind the subject, the subject will become dark. In this case, press the backlight ON / OFF button. To cancel this function, press the backlight ON / OFF button.

5. Focus Buttons

Used for focus adjustment.
Press [AUTO] adjusts the focus on the center of the image automatically.
To adjust the focus manually, press the [MANUAL] button, and adjust it with [Focus+] (Focus on far object) and [Focus-] (Focus on near object)

6. Camera Select Buttons

Press the button corresponding to the camera you want to operate with the remote controller.

7. # Button

8. Pan/Tilt Control Buttons

Press arrow buttons to perform panning and tilting. Press [HOME] button to face the camera back to front

9. Menu Setting

Menu button: Press this button to enter or exit the OSD menu

10. Zoom Buttons

Zoom : Zoom In
Zoom : Zoom Out

11. Set Camera IR Address Buttons

Select Address 1: [*] + [#] + [F1]
Select Address 2: [*] + [#] + [F2]
Select Address 3: [*] + [#] + [F3]
Select Address 4: [*] + [#] + [F4]